

Company W L Kirkman, Inc. Lease & Well No. Box Ranch #1  
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 12052  
 Date 7/13/81 Sec. 15 Twp. 35S Range 20W County Comanche State Kansas  
 Test Approved by Dan Jenkins. Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 5628 ft. to 5660 ft. Total Depth 5660 ft.  
 Packer Depth 5623 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 5628 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 5650 ft. Recorder Number 2607 Cap. 4150  
 Bottom Recorder Depth (Outside) 5653 ft. Recorder Number 3351 Cap. 4000  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Xplor Drilling Rig #1 Drill Collar Length 246 I. D. 2 1/4 in.  
 Mud Type - Viscosity 49 Weight Pipe Length - I. D. - in.  
 Weight 9.5 Water Loss 11.2 cc. Drill Pipe Length 5353 I. D. 3.8 in.  
 Chlorides 58,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 410 Anchor Length 32 ft. Size 5 1/2 OD in.  
 Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout test. Gas to surface final shut-in.

Recovered 150 ft. of gas cut mud (few specks of oil)  
 Recovered 660 ft. of gassy salt water Chlorides 75,000 PPM  
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of         

Remarks:         

Read outside chart

Time Set Packer(s) 1:30 ~~PM~~ <sup>A.M.</sup> Time Started Off Bottom 5:15 ~~PM~~ <sup>A.M.</sup> Maximum Temperature 131  
 Initial Hydrostatic Pressure          (A) 2951 P.S.I.  
 Initial Flow Period          Minutes 30 (B) 205 P.S.I. to (C) 317 P.S.I.  
 Initial Closed In Period          Minutes 63 (D) 2369 P.S.I.  
 Final Flow Period          Minutes 45 (E) 330 P.S.I. to (F) 441 P.S.I.  
 Final Closed In Period          Minutes 99 (G) 2233 P.S.I.  
 Final Hydrostatic Pressure          (H) 2868 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 7/13/81 Recorder No. 3351 Capacity 4000 Test Ticket No. 12052  
 Location 5653 Ft. Elevation - Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2951</u> P.S.I.	Open Tool	<u>1:30A</u>	<u>M</u>
B First Initial Flow Pressure	<u>205</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>317</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>2369</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>330</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>99</u> Mins.
F Second Final Flow Pressure	<u>441</u> P.S.I.			
G Final Closed-in Pressure	<u>2233</u> P.S.I.			
H Final Hydrostatic Mud	<u>2868</u> P.S.I.			

### PRESSURE BREAKDOWN

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>21</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>33</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>205</u>	<u>0</u>	<u>317</u>	<u>0</u>	<u>330</u>	<u>0</u>	<u>441</u>
P 2 <u>5</u>	<u>205</u>	<u>3</u>	<u>1351</u>	<u>5</u>	<u>335</u>	<u>3</u>	<u>1140</u>
P 3 <u>10</u>	<u>224</u>	<u>6</u>	<u>1632</u>	<u>10</u>	<u>349</u>	<u>6</u>	<u>1397</u>
P 4 <u>15</u>	<u>248</u>	<u>9</u>	<u>1802</u>	<u>15</u>	<u>364</u>	<u>9</u>	<u>1582</u>
P 5 <u>20</u>	<u>275</u>	<u>12</u>	<u>1918</u>	<u>20</u>	<u>379</u>	<u>12</u>	<u>1679</u>
P 6 <u>25</u>	<u>296</u>	<u>15</u>	<u>1987</u>	<u>25</u>	<u>394</u>	<u>15</u>	<u>1760</u>
P 7 <u>30</u>	<u>317</u>	<u>18</u>	<u>2063</u>	<u>30</u>	<u>407</u>	<u>18</u>	<u>1817</u>
P 8		<u>21</u>	<u>2108</u>	<u>35</u>	<u>419</u>	<u>21</u>	<u>1868</u>
P 9		<u>24</u>	<u>2152</u>	<u>40</u>	<u>430</u>	<u>24</u>	<u>1912</u>
P10		<u>27</u>	<u>2194</u>	<u>45</u>	<u>441</u>	<u>27</u>	<u>1945</u>
P11		<u>30</u>	<u>2226</u>			<u>30</u>	<u>1979</u>
P12		<u>33</u>	<u>2251</u>			<u>33</u>	<u>2004</u>
P13		<u>36</u>	<u>2270</u>			<u>36</u>	<u>2029</u>
P14		<u>39</u>	<u>2291</u>			<u>39</u>	<u>2051</u>
P15		<u>42</u>	<u>2308</u>			<u>42</u>	<u>2070</u>
P16		<u>45</u>	<u>2321</u>			<u>45</u>	<u>2082</u>
P17		<u>48</u>	<u>2333</u>			<u>48</u>	<u>2097</u>
P18		<u>51</u>	<u>2344</u>			<u>51</u>	<u>2112</u>
P19		<u>54</u>	<u>2354</u>			<u>54</u>	<u>2124</u>
P20		<u>57</u>	<u>2359</u>			<u>57</u>	<u>2139</u>
WTC - 4		<u>60</u>	<u>2365</u>			<u>60</u>	<u>2150</u>
		<u>63</u>	<u>2369</u>				

CONT'D NEXT PAGE

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 7/13/81

Test Ticket No. 12052

Recorder No. 3351 Capacity 4000

Location 5653 Ft.

Clock No. - Elevation - Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2951</u> P.S.I.	Open Tool	<u>1:30A</u>	<u>M</u>
B First Initial Flow Pressure	<u>205</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>317</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>2369</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>330</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>99</u> Mins.
F Second Final Flow Pressure	<u>441</u> P.S.I.			
G Final Closed-in Pressure	<u>2233</u> P.S.I.			
H Final Hydrostatic Mud	<u>2868</u> P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
Breakdown: 6 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

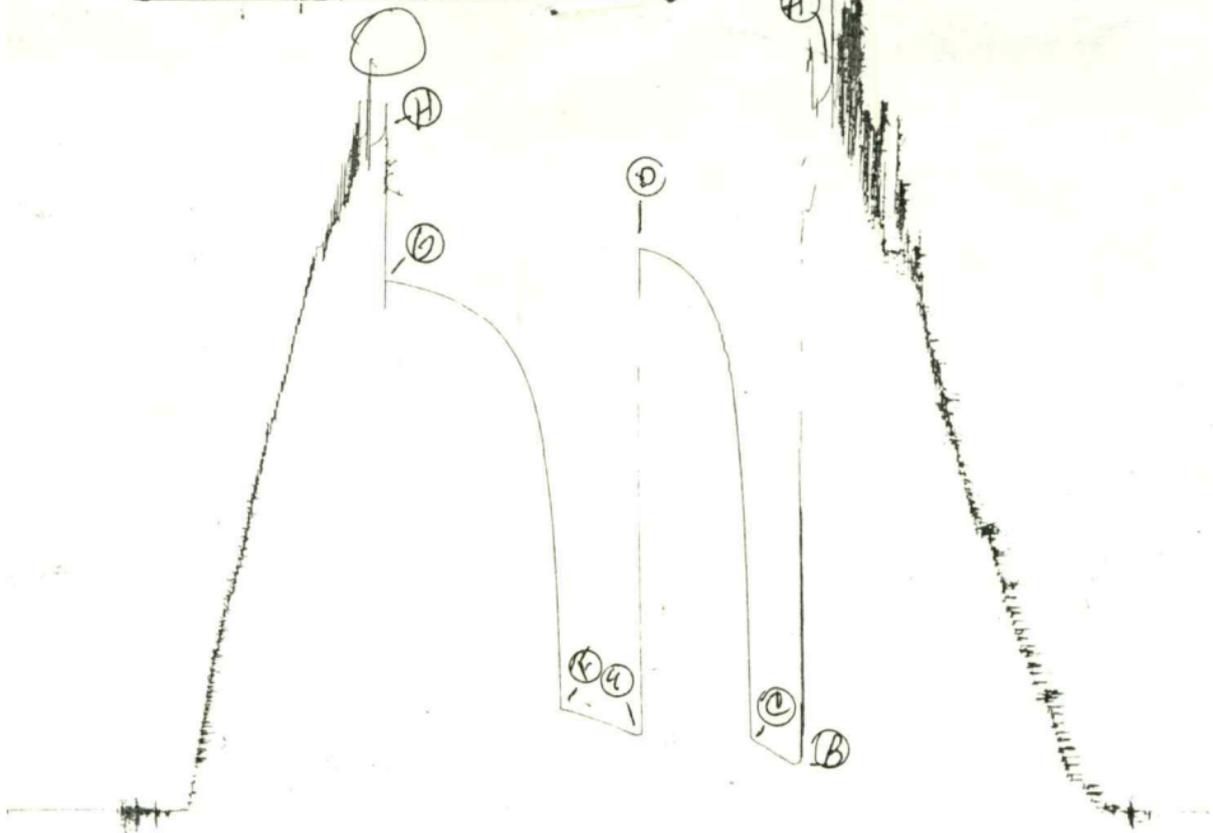
**Initial Shut-In**  
Breakdown: 21 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

**Second Flow Pressure**  
Breakdown: 9 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Final Shut-In**  
Breakdown: 33 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1							63	2160
P 2							66	2169
P 3							69	2177
P 4							72	2186
P 5							75	2192
P 6							78	2200
P 7							81	2205
P 8							84	2211
P 9							87	2217
P10							90	2221
P11							93	2226
P12							96	2231
P13							99	2233
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TKT # 12052



Company W. L. Kirkman, Inc. Lease & Well No. Box Ranch #1  
 Elevation --- Formation Mississippi Effective Pay -- Ft. Ticket No. 12053  
 Date 7/14/81 Sec. 15 Twp. 35S Range 20W County Comanche State Kansas  
 Test Approved by Mike Kirkman Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 5620 ft. to 5634 ft. Total Depth 5634 ft.  
 Packer Depth 5615 ft. Size 6 3/4 in. Packer Depth 5634 ft. Size 6 3/4 in.  
 Packer Depth 5620 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 5623 ft. Recorder Number 2607 Cap. 4150  
 Bottom Recorder Depth (Outside) 5626 ft. Recorder Number 3351 Cap. 4000  
 Below Straddle Recorder Depth 5660 ft. Recorder Number - Cap. -

Drilling Contractor Xplor Drilling Rig #1 Drill Collar Length 246 I. D. 2 1/4 in.  
 Mud Type premix Viscosity 47 Weight Pipe Length - I. D. - in.  
 Weight 8.9 Water Loss 48 cc. Drill Pipe Length 5345 I. D. 3.8 in.  
 Chlorides 20,000 P.P.M. Test Tool Length 45 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 410 Anchor Length 24 ft. Size 5 1/2 OD in.  
 Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout test. Gas to surface in forty-five minutes on pre-flow. See attached sheet for gas measurements.

Recovered 400 ft. of salt water (75,000 chlorides ppm)  
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of       
 Recovered      ft. of     

Remarks: Overran final shut-in twenty minutes working on air lines.

Time Set Packer(s) 7:00 A.M. Time Started Off Bottom 11:20 A.M. Maximum Temperature 131°  
 Initial Hydrostatic Pressure (A) 2924 P.S.I.  
 Initial Flow Period Minutes 45 (B) 106 P.S.I. to (C) 106 P.S.I.  
 Initial Closed In Period Minutes 63 (D) 1752 P.S.I.  
 Final Flow Period Minutes 45 (E) 182 P.S.I. to (F) 182 P.S.I.  
 Final Closed In Period Minutes 108 (G) 1714 P.S.I.  
 Final Hydrostatic Pressure (H) 2716 P.S.I.

## GAS FLOW REPORT

Date 7/14/81 Ticket 12053 Company W. L. Kirkman, Inc.  
 Well Name and No. Box Ranch #1 Dst No. 2 Interval Tested 5620' - 5634'  
 County Comanche State Kansas Sec. 15 Twp. 35S Rg. 20W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
<b>Gas to surface in forty-five minutes. PRE FLOW</b>						

<b>SECOND FLOW</b>						
	5 min.	4" of water		1/4" orifice		3,370 CFPD
	15 min.	6" of water		1/4" orifice		4,120 CFPD
	25 min.	7" of water		1/4" orifice		4,450 CFPD
	35 min.	9" of water		1/4" orifice		5,050 CFPD
	45 min.	12" of water		1/4" orifice		5,860 CFPD

### GAS BOTTLE

Serial No. \_\_\_\_\_ Date Bottle Filled \_\_\_\_\_ Date to be Invoiced 7/14/81

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME W. L. Kirkman, Inc.  
 Authorized by Mike Kirkman

# WESTERN TESTING CO., INC.

## Pressure Data

Date 7/14/81 Recorder No. 2607 Capacity 4150 Test Ticket No. 12053  
 Location 5623 Ft.           
 Clock No.          = Elevation          = Well Temperature 131 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	2924	P.S.I.	Open Tool	7:00A	M
B First Initial Flow Pressure	106	P.S.I.	First Flow Pressure	45	Mins. 45 Mins.
C First Final Flow Pressure	106	P.S.I.	Initial Closed-in Pressure	60	Mins. 63 Mins.
D Initial Closed-in Pressure	1752	P.S.I.	Second Flow Pressure	45	Mins. 45 Mins.
E Second Initial Flow Pressure	182	P.S.I.	Final Closed-in Pressure	110	Mins. 108 Mins.
F Second Final Flow Pressure	182	P.S.I.			
G Final Closed-in Pressure	1714	P.S.I.			
H Final Hydrostatic Mud	2716	P.S.I.			

### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In					
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.				
	of	5	mins. and a	final inc. of	0	Min.	of	3	mins. and a	final inc. of	0	Min.
	of	9	mins. and a	final inc. of	0	Min.	of	9	mins. and a	final inc. of	0	Min.
	of	5	mins. and a	final inc. of	0	Min.	of	9	mins. and a	final inc. of	0	Min.
	of	3	mins. and a	final inc. of	0	Min.	of	36	mins. and a	final inc. of	0	Min.
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.					
P 1 0	106	0	106	0	182	0	182					
P 2 5	106	3	542	5	182	3	585					
P 3 10	106	6	737	10	182	6	741					
P 4 15	106	9	883	15	182	9	893					
P 5 20	106	12	1027	20	182	12	1022					
P 6 25	106	15	1142	25	182	15	1105					
P 7 30	106	18	1230	30	182	18	1169					
P 8 35	106	21	1301	35	182	21	1230					
P 9 40	106	24	1366	40	182	24	1274					
P10 45	106	27	1416	45	182	27	1309					
P11	106	30	1458			30	1354					
P12	106	33	1498			33	1390					
P13	106	36	1537			36	1427					
P14	106	39	1569			39	1445					
P15	106	42	1599			42	1471					
P16	106	45	1632			45	1490					
P17	106	48	1655			48	1506					
P18	106	51	1676			51	1527					
P19	106	54	1700			54	1548					
P20	106	57	1717			57	1556					
WTC - 4		60	1735			60	1558					
		63	1752									

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**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 7/14/81 Test Ticket No. 12053  
 Recorder No. 2607 Capacity 4150 Location 5623 Ft.  
 Clock No. = Elevation = Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2924 P.S.I.	Open Tool	7:00A	M
B First Initial Flow Pressure	106 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	106 P.S.I.	Initial Closed-in Pressure	60 Mins.	63 Mins.
D Initial Closed-in Pressure	1752 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	182 P.S.I.	Final Closed-in Pressure	110 Mins.	108 Mins.
F Second Final Flow Pressure	182 P.S.I.			
G Final Closed-in Pressure	1714 P.S.I.			
H Final Hydrostatic Mud	2716 P.S.I.			

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
 Breakdown: 9 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

**Initial Shut-In**  
 Breakdown: 21 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

**Second Flow Pressure**  
 Breakdown: 9 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

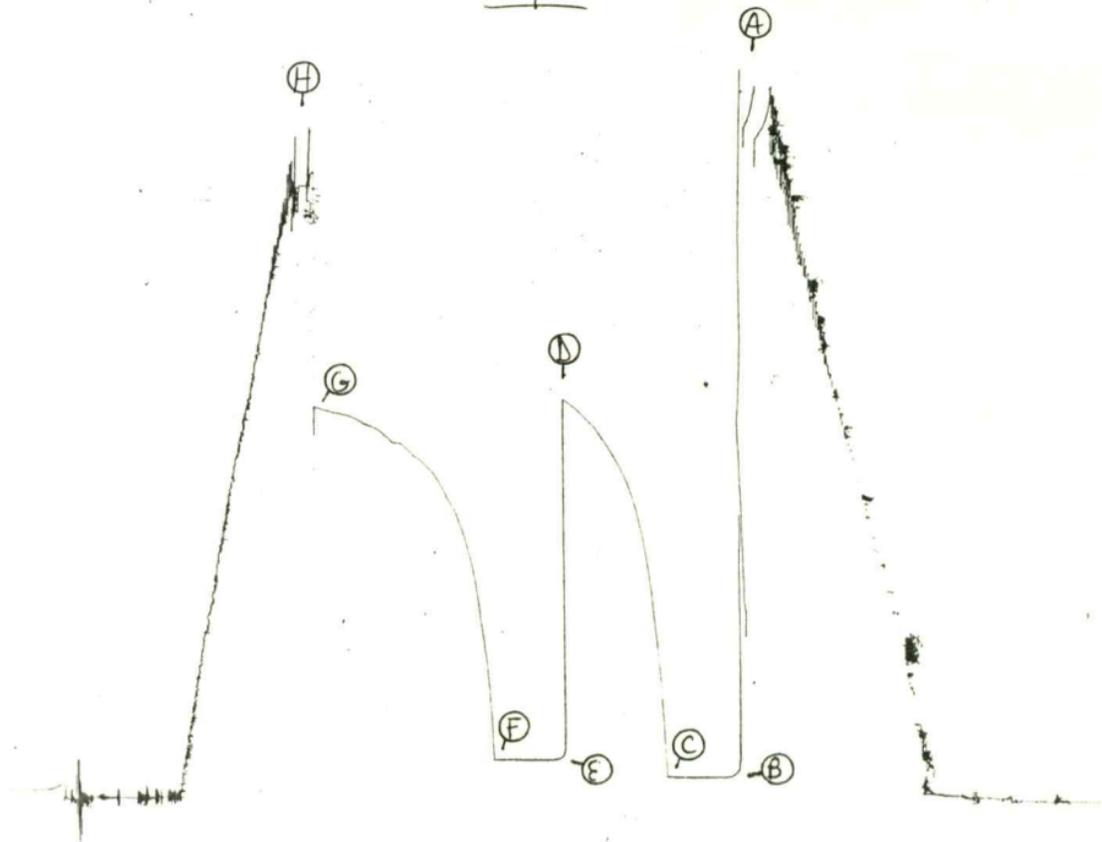
**Final Shut-In**  
 Breakdown: 36 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1578
P 2						66	1600
P 3						69	1615
P 4						72	1626
P 5						75	1635
P 6						78	1643
P 7						81	1658
P 8						84	1668
P 9						87	1678
P10						90	1684
P11						93	1686
P12						96	1693
P13						99	1699
P14						102	1705
P15						105	1712
P16						108	1714
P17							
P18							
P19							
P20							

V

TRT # 1-2053

I



10

TKT # 12053

Below straddle



Company W. L. Kirkman, Inc. Lease & Well No. #1 Box Ranch  
 Elevation 1795 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 12943  
 Date 8/12/81 Sec. 15 Twp. 35S Range 20W County Comanche State Kansas  
 Test Approved by A G Siemens Western Representative Karl L West, Jr.

Formation Test No. 1 Interval Tested from 5095 ft. to 5130 ft. Total Depth 5130 ft.  
 Packer Depth 5095 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 5121 ft. Recorder Number 1566 Cap. 4300  
 Bottom Recorder Depth (Outside) 5124 ft. Recorder Number 3086 Cap. 4400  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor X-Plor Rig #1 Drill Collar Length 559 I. D. 4300 in.  
 Mud Type Chemical Viscosity 48 Weight Pipe Length - I. D. - in.  
 Weight 9.2 Water Loss 8.4 cc. Drill Pipe Length 4580 I. D. 3.8 in.  
 Chlorides 15,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.  
 Jars: Make - Serial Number - Anchor Length 35 ft. Size 5 1/2 in.  
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Initial flow period weak (1/2" underwater) held steady.  
Final flow period no blow - flushed tool - very weak (surface of water) held steady.

Recovered 187 ft. of mud with slight rainbow  
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of         

Remarks:         

Time Set Packer(s)	<u>11:40</u>	<del>A.M.</del> <u>P.M.</u>	Time Started Off Bottom	<u>1:50</u>	<del>A.M.</del> <u>P.M.</u>	Maximum Temperature	<u>121</u>
Initial Hydrostatic Pressure		(A)	<u>2544</u>		P.S.I.		
Initial Flow Period		Minutes	<u>30</u>	(B)	<u>93</u>	P.S.I. to (C)	<u>108</u> P.S.I.
Initial Closed In Period		Minutes	<u>33</u>	(D)	<u>1214</u>		P.S.I.
Final Flow Period		Minutes	<u>30</u>	(E)	<u>117</u>	P.S.I. to (F)	<u>105</u> P.S.I.
Final Closed In Period		Minutes	<u>33</u>	(G)	<u>294</u>		P.S.I.
Final Hydrostatic Pressure		(H)	<u>2544</u>		P.S.I.		

# WESTERN TESTING CO., INC.

## Pressure Data

Date 8/12/81 Test Ticket No. 12943  
 Recorder No. 1566 Capacity 4300 Location 5121 Ft.  
 Clock No. - Elevation 1795 Kelly Bushing Well Temperature 121 °F

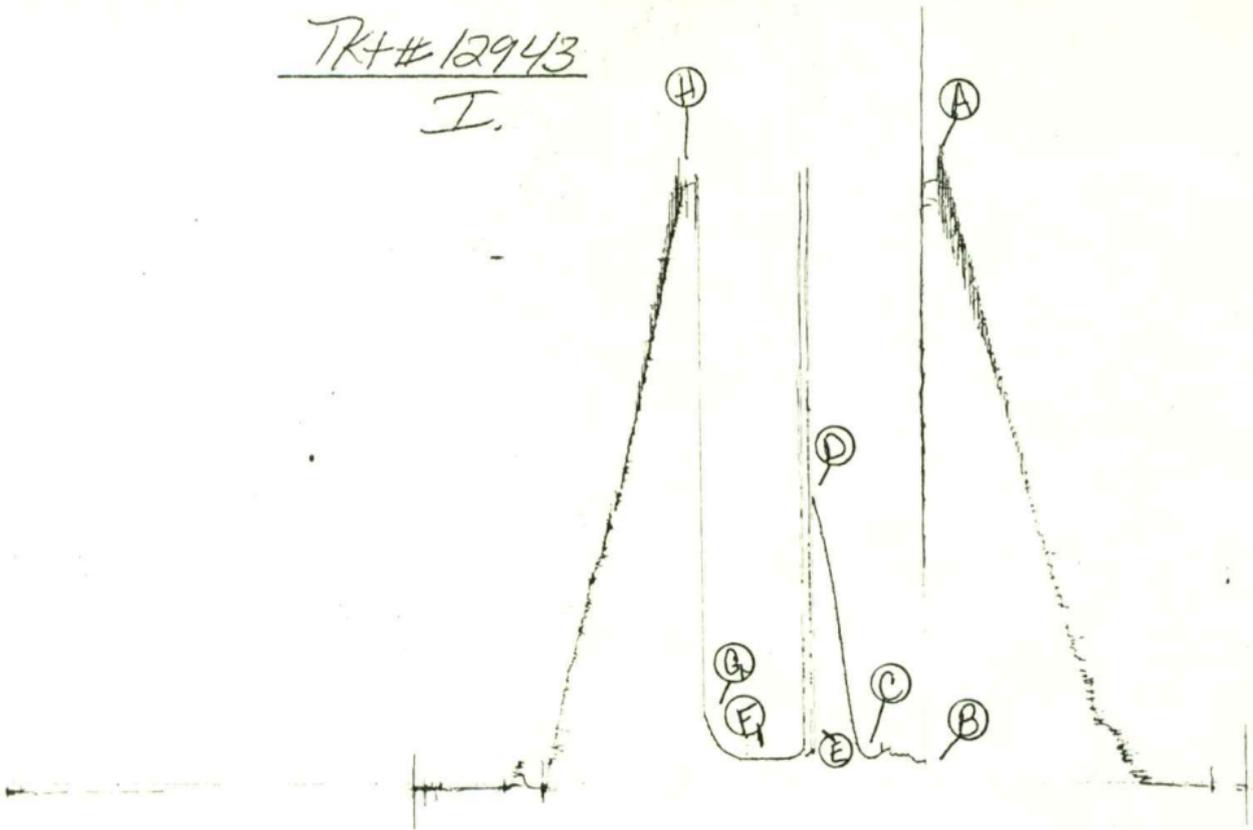
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2544</u>	P.S.I.	<u>11:40A</u>	<u>M</u>
B First Initial Flow Pressure	<u>93</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Mins.
C First Final Flow Pressure	<u>108</u>	P.S.I.	<u>45</u>	<u>Mins. 33</u> Mins.
D Initial Closed-in Pressure	<u>1214</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Mins.
E Second Initial Flow Pressure	<u>117</u>	P.S.I.	<u>25</u>	<u>Mins. 33</u> Mins.
F Second Final Flow Pressure	<u>105</u>	P.S.I.		
G Final Closed-in Pressure	<u>294</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2544</u>	P.S.I.		

### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>6</u> mins. and a		of <u>11</u> mins. and a		of <u>6</u> mins. and a		of <u>11</u> mins. and a	
	final inc. of <u>0</u> Min.							
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>93</u>	<u>0</u>	<u>108</u>	<u>0</u>	<u>117</u>	<u>0</u>	<u>105</u>	
P 2 <u>5</u>	<u>93</u>	<u>3</u>	<u>108</u>	<u>5</u>	<u>117</u>	<u>3</u>	<u>105</u>	
P 3 <u>10</u>	<u>121</u>	<u>6</u>	<u>130</u>	<u>10</u>	<u>119</u>	<u>6</u>	<u>105</u>	
P 4 <u>15</u>	<u>121</u>	<u>9</u>	<u>199</u>	<u>15</u>	<u>108</u>	<u>9</u>	<u>105</u>	
P 5 <u>20</u>	<u>121</u>	<u>12</u>	<u>313</u>	<u>20</u>	<u>106</u>	<u>12</u>	<u>104</u>	
P 6 <u>25</u>	<u>134</u>	<u>15</u>	<u>472</u>	<u>25</u>	<u>106</u>	<u>15</u>	<u>112</u>	
P 7 <u>30</u>	<u>108</u>	<u>18</u>	<u>678</u>	<u>30</u>	<u>105</u>	<u>18</u>	<u>125</u>	
P 8 _____	_____	<u>21</u>	<u>847</u>	_____	_____	<u>21</u>	<u>138</u>	
P 9 _____	_____	<u>24</u>	<u>957</u>	_____	_____	<u>24</u>	<u>162</u>	
P10 _____	_____	<u>27</u>	<u>1064</u>	_____	_____	<u>27</u>	<u>197</u>	
P11 _____	_____	<u>30</u>	<u>1156</u>	_____	_____	<u>30</u>	<u>248</u>	
P12 _____	_____	<u>33</u>	<u>1214</u>	_____	_____	<u>33</u>	<u>294</u>	
P13 _____	_____	_____	_____	_____	_____	_____	_____	
P14 _____	_____	_____	_____	_____	_____	_____	_____	
P15 _____	_____	_____	_____	_____	_____	_____	_____	
P16 _____	_____	_____	_____	_____	_____	_____	_____	
P17 _____	_____	_____	_____	_____	_____	_____	_____	
P18 _____	_____	_____	_____	_____	_____	_____	_____	
P19 _____	_____	_____	_____	_____	_____	_____	_____	
P20 _____	_____	_____	_____	_____	_____	_____	_____	

Flushed Tool

TK#12943  
I.



Company W. L. Kirkman, Inc. Lease & Well No. Box Ranch #1  
 Elevation 1195 Kelly Bushing Formation Morrow Effective Pay - Ft. Ticket No. 12944  
 Date 8/14/81 Sec. 15 Twp. 35S Range 20W County Comanche State Kansas  
 Test Approved by A. G. Siemens Western Representative Karl L. West, Jr.

Formation Test No. 2 Interval Tested from 5473 ft. to 5545 ft. Total Depth 5545 ft.  
 Packer Depth 5468 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 5473 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5502 ft. Recorder Number 1566 Cap. 4300  
 Bottom Recorder Depth (Outside) 5505 ft. Recorder Number 3086 Cap. 4400  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Xplor Driloing Rig #1 Drill Collar Length 559 I. D. 2.26 in.  
 Mud Type chemical Viscosity 56 Weight Pipe Length - I. D. - in.  
 Weight 9.2 Water Loss 16.0 cc. Drill Pipe Length 4986 I. D. 3.8 in.  
 Chlorides 20,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.  
 Jars: Make - Serial Number - Anchor Length 72 ft. Size 5 1/2 in.  
 Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial flow period gas to surface in one minute. See attached sheet for gas measurements.

Recovered 10 ft. of gas and mud cut oil  
 Recovered 530 ft. of salt water  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -

Remarks: Change out packers on floor; strapping pipe going in.

Time Set Packer(s) 3:10 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 5:40 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 141°  
 Initial Hydrostatic Pressure (A) 2679 P.S.I.  
 Initial Flow Period Minutes 30 (B) 1024\* P.S.I. to (C) 1240 \* P.S.I.  
 Initial Closed In Period Minutes 45 (D) 2076 P.S.I.  
 Final Flow Period Minutes 30 (E) 1283\* P.S.I. to (F) 1208 \* P.S.I.  
 Final Closed In Period Minutes 45 (G) 2076 P.S.I.  
 Final Hydrostatic Pressure (H) 2679 P.S.I.

## GAS FLOW REPORT

Date 8/14/81 Ticket 12944 Company W. L. Kirkman, Inc.  
 Well Name and No. Box Ranch #1 Dst No. 2 Interval Tested 5473'-5545'  
 County Comanche State Kansas Sec. 15 Twp. 35S Rg. 20W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
<b>PRE FLOW</b>						
	10 min.	165 PSIG	1 1/4" orifice			7,029,000 CFPD ESTIMATED
	20 min.	130 PSIG	1 1/4" orifice			5,758,000 CFPD ESTIMATED
	30 min.	170 PSIG	1 1/4" orifice			7,209,000 CFPD ESTIMATED

	PITOT TESTER	P.S.I.	ORIFICE	P.S.I.	P.S.I.	SECOND FLOW
	10 min.	60 PSIG	2" orifice			7,120,000 CFPD
	20 min.	65 PSIG	2" orifice			7,600,000 CFPD
	30 min.	65 PSIG	2" orifice			7,600,000 CFPD

**GAS BOTTLE**

Serial No. 211 Date Bottle Filled 8/14/81 Date to be Invoiced 8/14/81

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME W. L. Kirkman, Inc.  
A. G. Siemens  
 Authorized by \_\_\_\_\_

# WESTERN TESTING CO., INC.

## Pressure Data

Date 8/14/81 Test Ticket No. 12944  
 Recorder No. 1566 Capacity 4300 Location 5502 Ft.  
 Clock No. - Elevation 1795 Kelly Bushing Well Temperature 141 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2679	P.S.I.	3:10A	M
B First Initial Flow Pressure	1024 *	P.S.I.	30	Mins. 30
C First Final Flow Pressure	1240 *	P.S.I.	45	Mins. 45
D Initial Closed-in Pressure	2076	P.S.I.	30	Mins. 30
E Second Initial Flow Pressure	1283 *	P.S.I.	45	Mins. 45
F Second Final Flow Pressure	1208 *	P.S.I.		
G Final Closed-in Pressure	2076	P.S.I.		
H Final Hydrostatic Mud	2679	P.S.I.		

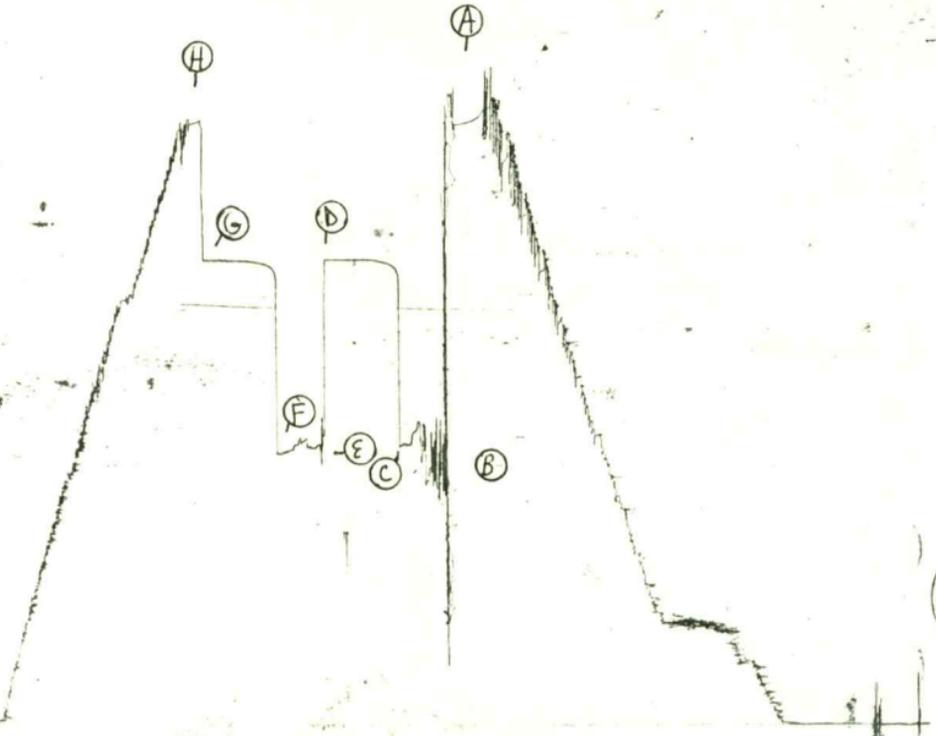
\* PRESSURES QUESTIONABLE DUE TO PLUGGING ACTION.

### PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>1024</u> *	<u>0</u>	<u>1240</u> *	<u>0</u>	<u>1283</u> *	<u>0</u>	<u>1208</u> *
P 2 <u>5</u>	<u>985</u> *	<u>3</u>	<u>2043</u>	<u>5</u>	<u>1244</u> *	<u>3</u>	<u>2039</u>
P 3 <u>10</u>	<u>1058</u> *	<u>6</u>	<u>2054</u>	<u>10</u>	<u>1238</u> *	<u>6</u>	<u>2052</u>
P 4 <u>15</u>	<u>1068</u> *	<u>9</u>	<u>2065</u>	<u>15</u>	<u>1257</u> *	<u>9</u>	<u>2061</u>
P 5 <u>20</u>	<u>1309</u> *	<u>12</u>	<u>2069</u>	<u>20</u>	<u>1227</u> *	<u>12</u>	<u>2065</u>
P 6 <u>25</u>	<u>1248</u> *	<u>15</u>	<u>2073</u>	<u>25</u>	<u>1216</u> *	<u>15</u>	<u>2068</u>
P 7 <u>30</u>	<u>1240</u> *	<u>18</u>	<u>2076</u>	<u>30</u>	<u>1208</u> *	<u>18</u>	<u>2070</u>
P 8		<u>21</u>	<u>2076</u>			<u>21</u>	<u>2071</u>
P 9		<u>24</u>	<u>2076</u>			<u>24</u>	<u>2072</u>
P10		<u>27</u>	<u>2076</u>			<u>27</u>	<u>2073</u>
P11		<u>30</u>	<u>2076</u>			<u>30</u>	<u>2074</u>
P12		<u>33</u>	<u>2076</u>			<u>33</u>	<u>2075</u>
P13		<u>36</u>	<u>2076</u>			<u>36</u>	<u>2076</u>
P14		<u>39</u>	<u>2076</u>			<u>39</u>	<u>2076</u>
P15		<u>42</u>	<u>2076</u>			<u>42</u>	<u>2076</u>
P16		<u>45</u>	<u>2076</u>			<u>45</u>	<u>2076</u>
P17							
P18							
P19							
P20							

TKT # 12944

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1566